

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

Claim 1 (currently amended): A method for producing a labeled nucleic acid or protein, wherein the method comprises binding the nucleic acid or protein to an LSI (large scale integrated circuit) that comprises more than 320 million bits of memory, and recording specific information on the LSI, wherein the nucleic acid is double-stranded or circular and the specific information is characteristic to the nucleic acid or protein bound to the LSI.

Claim 2 (canceled)

Claim 3 (previously presented): The method of claim 1, wherein a substrate mediates the binding of the nucleic acid or protein to the LSI.

Claim 4 (original): The method of claim 3, wherein the substrate is selected from the group consisting of cellulose vinyl acetate, α -cyanoacrylate, silicon denatured polymer, epoxy resin, and calcium sulfate.

Claim 5 (original): The method of claim 1, wherein an antibody bound to the protein mediates the binding of the protein to the LSI.

Claim 6 (previously presented): The method of claim 1, wherein the protein
(i) has a sugar chain and (ii) is attached to the LSI via the sugar chain, and a
characteristic of the sugar chain of the protein is described on the LSI.

Claim 7 (previously presented): The method of claim 1, wherein the specific
information is the chain length, number of chains, molecular weight, sugar chain
properties, activities, function, or origin of the nucleic acid or protein.

Claim 8 (new): The method of claim 1, comprising binding a nucleic acid
to said LSI.

Claim 9 (new): The method of claim 1, comprising binding a protein to
said LSI.